

DERWENT ABSTRACT FOR: JP 06-016924 (Asahi), published 25 Jan 1994:

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ACCESSION NUMBER: 1994-062151 [08] WPIINDEX  
DOC. NO NKN-CPI: N1994-049075  
DOC. NO CPI: C1994-027887  
TITLE: Polyphenylene ether resin alloy with improved welding properties and oil resistance - comprises polyolefin, aromatic vinyl-conjugated diene block copolymer and e.g. PPE (contg. polystyrene resin).  
DERWENT CLASS: A16 A25 A85 A95 L03 V04 X12  
PATENT ASSIGNEE(S): (ASAHI) ASAHI CHEM IND CO LTD  
COUNTRY COUNT: 1  
PATENT INFORMATION:

PATENT NO	KIND	FILED DATE	WEEK	LA	PG
JP 06016924	A	19940125	199408)*	6	<--

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
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The resin compsn. is characterised in that the resin compsn. comprises (a) a polyolefin resin; (b) a polyphenylene ether resin (PPE) or a PPE contg. a polystyrene resin (PS) or a rubber-reinforced PS, and (c) an aromatic vinyl cpd. conjugated diene cpd. block copolymer or its partially hydrogenated crosslinked substance, and has an insol gel content of more than 30% of the amt. of the original (c) component when the resin compsn. is Soxhlet-extracted by the use of mixed xylenes and a Nc.84 thimble for 24 hrs.

More specifically, the polyolefin is, e.g. an isotactic polypropylene (I-PP). The PPE is e.g. poly(2,6-dimethyl-1,4-phenylene ether) PDMPE). The aromatic vinyl cpds conjugated diene cpd block copolymer is, e.g. a partially hydrogenated styrene-butadiene-styrene block copolymer (H-SBS) having a styrene content of 50% and a hydrogenation ratio of 80%.

USE/ADVANTAGE - The compsn. is used for electrical and electronic parts, car parts, and other industrial parts. It has high resistance to oil, chemicals, heat, and impact and improved welding properties.

In an example, 35 pts. wt. of H-SBS, 0.5 pts. wt. of Irganox 1010, and 0.05 pt. wt. of di-t-butyl peroxide was melted at 250 deg. C kneaded, extruded, injection-moulded at 250-260 deg. C and welded to give a welded dumbbell specimen. The welded part of the specimen had an elongation of 11.0%, a tensile strength at break of 200.0 kg/cm<sup>2</sup>, and an Izod impact strength of 25.2 kg/cm<sup>2</sup>. The resin compsn. had an insol. gel content of 93% of the H-SBS.

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